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S1	8	fuzzy and inference and semiconductor and lifetime and fabrication and equipment and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 10:22
S2	16	fuzzy and inference and "semiconductor fabrication" and equipment and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 10:34
S3	2	"5806056".did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 10:36
S4	4	"remaining lifetime" and semiconductor and fuzzy and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:28
S5	2	"5778279".did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:29
S6	1	399/42 and semiconductor and fuzzy and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:40
S7	0	399/42 and wafers and fuzzy and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:41
S8	106	fabrication and lifetime and fuzzy and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:43
S9	181	manufacturing and lifetime and fuzzy and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:47

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S10	521	manufacturing and replacement and fuzzy and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:47
S11	110	S9 and semiconductor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:48

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for multistate equipment**

Suresh, P.V., Chaudhuri, D., Rao, B.V.A.

Div. of Reactor Safety, Bhabha Atomic Res. Centre, Bom

This paper appears in: [Reliability, IEEE Transactions on](#)
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Volume: 43, Issue: 3

On page(s): 451 - 456

ISSN: 0018-9529

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INSPEC Accession Number: 4797435

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Abstract

Maintenance of any equipment based on its condition is usually a difficult task. The condition of the equipment can be represented using **fuzzy sets**. This paper presents a **set model** for maintenance policy of multistate equipment. The model is based on two criteria: (a) equipment condition and remaining life, and (b) maximization of the utility function. The model is extended to maintenance planning of the equipment. The results are useful for **replacement decisions** and **inventory control**.

Index Terms

Inspec

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